

ANGUS S. KING, JR. GOVERNOR

STATE OF MAINE DEPARTMENT OF HUMAN SERVICES DIVISION OF HEALTH ENGINEERING 10 STATE HOUSE STATION AUGUSTA, MAINE 04333-0010

August 20, 1999

KEVIN W. CONCANNON COMMISSIONER

Challen hopeth Trongolics

Geoflow, Inc.

Attn.: Suzanne Dill, Regional Manager

77-32 66th Road

Middle Village, New York 11379

Subject: Approval, WASTEFLOW Experimental Drip Irrigation System

Dear Ms. Dill:

The Division of Health Engineering has completed its review of an application for use of the Geoflow WASTEFLOW subsurface drip irrigation system for onsite wastewater disposal. Because this proposal falls outside the usual provisions of the Maine State Plumbing Code, Subsurface Wastewater Disposal Rules it has been reviewed as an experimental system.

It is our understanding that the WASTEFLOW system consists of a proprietary ½ inch inside diameter plastic emitter line, inline pressure reducing flow emitters, a cyclonic solids filter, vacuum relief valves, and rigid plastic header lines. The interior of the emitter lines is impregnated with a root growth retardant and a bactericide. The emitter lines are available in variable pressure ("Classic") and constant pressure ("PC") models. A proprietary electronic control panel would be used to control dosing volume and frequency.

Typical installations would consist of a ladder-shaped arrangement, with a supply header with a vacuum relief valve, multiple emitter lines, and a return header with a vacuum relief valve. Effluent would be pumped from a treatment tank through a cyclonic filter to the supply header, and would return to the treatment tank if not fully disposed of during the pump cycle. The systems are designed to accommodate back-flushing for cleaning the various lines and thereby preventing solids buildup. Individual systems would be sized according to volume and loading rates in accordance with Table 1 of the design, installation and maintenance manual dated May 1, 1999.

Based upon the information and correspondence in our file, including the design. installation and maintenance manual dated May 1, 1999, this office grants approval for use of the WASTEFLOW subsurface drip irrigation system for onsite wastewater disposal, pursuant to Chapter 18 of the Maine State Plumbing Code, Subsurface Wastewater Disposal Rules, Section 1801.0 (copy enclosed). This approval is subject to the following conditions:



- 1. Individual **WASTEFLOW** systems shall require prior review and approval by the Division as experimental systems for a period of time no less than two years form the date of this approval.. This condition may be reconsidered or revised upon submission of documentation that systems, installed and operated as designed, perform as intended by the manufacturer, i.e., Geoflow, Inc.;
- 2. Individual first time system designs shall include a reserve design for a conventional onsite wastewater disposal system, and a minimum 12 month monitoring program to document the system's performance;
- 3. In the cases of replacements of existing licensed overboard discharges, where the site can not support a conventional system, the reserve design maybe waived, but only after review and approval by the Division; and
- 4. The minimum separation distances required by the Rules shall be maintained between the seasonal high groundwater table or other limiting factor, and the lowest elevation of all WASTEFLOW systems' disposal areas

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of this system.

If you have any questions please feel free to contact me at (207) 287-5695.

Sincerely,

James A. Jaeobsen, Manager

Wastewater and Plumbing Control Program

Division of Health Engineering

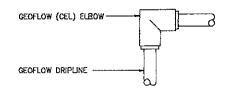
e-mail: james.jacobsen@state.me.us

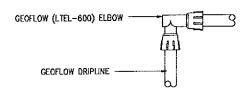
mnesA. Jacobsa

xc: File

Lewis Paine, Distributor

Wasteflow System Details

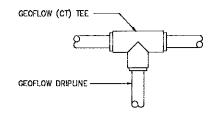


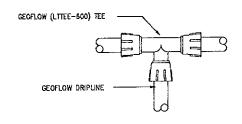


(502) GEOFLOW ELBOW (CEL)

(S02LS) GEOFFLOW LOCKSLIP ELBOW (LTEL-600)

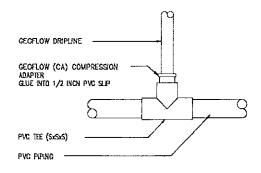
Ret To Sorte

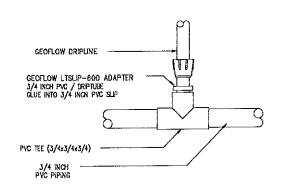




(503) GEOGRAGY TEE (CT)

(SOULS) CEROPALOW LOCKSLIP TEE (LITEE-600)

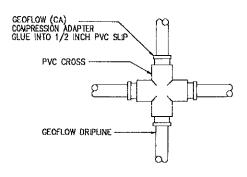


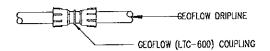


(504) GEORLEW MANIFOLD CONNECTION (PVC TO ADAPTER)

MANIFOLD CONNECTION (PVC TO ADAPTER)

LTSLIP-600





(506) CEOTION PVC CROSS WITH COMPRESSION ADAPTORS (CA)

(SOILS) CERTIFICATION LOCKSLIP COUPLING (LTC-600)

Not To Sec

